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Cover Pages: Moving Picture Experts Group: MPEG-7 Standard

They build on the **audio**-visual data representation defined by MPEG-1, -2 and -4.

Document URI: <http://xml.coverpages.org/mpeg7.html> — Legal stuff ...

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Cover Pages: Voice Extensible Markup Language (VoiceXML)

As an **XML**-based definition with an **HTML**-like appearance, VXML will be easy
to forms: **audio** recording, **automatic speech** recognition, and touch-tone.

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Cisco IOS TCL IVR and VoiceXML Application Guide - Glossary

[\[Cisco ...](#)

automatic speech recognition. Capability of an external media server to World
Wide Web Consortium; the standards body responsible for **XML (and HTML)**. ...

[www.cisco.com/en/US/products/sw/iosswrel/](http://www.cisco.com/en/US/products/sw/iosswrel/ps1839/products_feature_guide_chapter09186a00800b5dd9.html)

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Project-Team-Parole:Automatic Speech Recognition

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difficult to **recognize** and interpret than explicit **speech** interactions, ...

www.inria.fr/rapportsactivite/RA2005/parole/uid72.html - 23k - [Cached](#) - [Similar pages](#)

XML Accessibility Guidelines

Within W3C, the **HTML** language is now being recast as **XML** - this is called ... Will allow
user agent developers to **recognize** these alternatives and provide ...

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Speech

First, we digitize the **speech** that we want to **recognize**; for telephone ... Also see their
response to the question "What is **Automatic Speech** Recognition? ...

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Project-Parole:Automatic speech recognition

Automatic speech recognition aims at reproducing the cognitive ability of humans to
recognize and understand oral **speech**. This difficult challenge cannot be ...

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Amazon.com: Definitive VoiceXML: Books: Adam Hocek,David Cuddihy

NET; Detailed coverage of text-to-**speech** and **automatic speech** ... He invented SGML,
the Standard Generalized Markup Language on which both **XML** and **HTML** are ...

www.amazon.com/Definitive-VoiceXML-Adam-Hocek/dp/0130463450 - 142k -

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[PDF] Browsing Recorded Meetings with Ferret

File Format: PDF/Adobe Acrobat

user has selected which **XML** streams, **HTML** transcripts or ASR output is desired, ... that transcripts produced by **automatic speech** recognition contain many ...

www.springerlink.com/index/qekb5mrnttkcgnu4.pdf - [Similar pages](#)

VoiceXML and Next-Generation Voice Services

An example that uses SSML elements to control **speech** and **audio** outputs is shown: <?

xml XHTML 1.0 is a reformulation of **HTML** 4.0 into an **XML**. ...

www.idealliance.org/papers/xml02/dx_xml02/papers/06-02-01/06-02-01.html - 76k -

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- ☐ 1. **Waveform-based speech recognition using hidden filter models: parameter selection and sensitivity to power normalization**
 Sheikhzadeh, H.; Deng, L.;
[Speech and Audio Processing, IEEE Transactions on](#)
 Volume 2, Issue 1, Part 2, Jan. 1994 Page(s):80 - 89
 Digital Object Identifier 10.1109/89.260337
[AbstractPlus](#) | Full Text: [PDF](#)(924 KB) IEEE JNL
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- ☐ 2. **A human machine speaker dependent speech interactive system**
 Sreenu, G.; Girija, P.N.; Prasad, M.N.; Nagamani, M.;
[India Annual Conference, 2004. Proceedings of the IEEE INDICON 2004, First](#)
 20-22 Dec. 2004 Page(s):349 - 351
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- ☐ 3. **Generating expressive speech for storytelling applications**
 Theune, M.; Meijs, K.; Heylen, D.; Ordeman, R.;
[Audio, Speech and Language Processing, IEEE Transactions on \[see also Speech and Audio Processing, IEEE Transactions on\]](#)
 Volume 14, Issue 4, July 2006 Page(s):1137 - 1144
 Digital Object Identifier 10.1109/TASL.2006.876129
[AbstractPlus](#) | Full Text: [PDF](#)(424 KB) IEEE JNL
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 Watanabe, A.; Tomishige, S.; Nakatake, M.;
[Speech and Audio Processing, IEEE Transactions on](#)
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 Hong Kook Kim; Cox, R.V.;
[Speech and Audio Processing, IEEE Transactions on](#)
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[Industrial Electronics, IEEE Transactions on](#)
Volume 45, Issue 1, Feb. 1998 Page(s):15 - 22
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Lei Xie; Zhi-Qiang Liu;
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Ji Ming;
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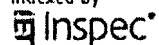
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 Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.64 MB\)](#) Additional Information: [full citation](#)2 [Web content accessibility guidelines 1.0](#)
 Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs
 July 2001 **interactions**, Volume 8 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(471.98 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
3 [Document analysis: NCL 2.0: integrating new concepts to XML modular languages](#)
 Heron V. O. Silva, Rogério F. Rodrigues, Luiz Fernando G. Soares, Débora C. Muchaluat Saade
 October 2004 **Proceedings of the 2004 ACM symposium on Document engineering DocEng '04**

Publisher: ACM Press

Full text available: [pdf\(243.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the main new features of Nested Context Language (NCL) version 2.0. NCL 2.0 is a modular and declarative hypermedia language, whose modules can be combined to other languages, such as SMIL, to provide new facilities. Among the NCL 2.0 new features, we can highlight the support for handling hypermedia relations as first-class entities, through the definition of hypermedia connectors, and the possibility of specifying any semantics for a hypermedia composition, using the con ...

Keywords: NCL, SMIL, XConnector, XTemplate, composition template, framework for parsing and processing XML, hypermedia connector

4 [Image Retrieval from the World Wide Web: Issues, Techniques, and Systems](#)
 M. L. Kherfi, D. Ziou, A. Bernardi
 March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(294.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

5 Visualizing geospatial data



Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)


This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

6 Extending Java for high-level Web service construction



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available:  [pdf\(947.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, Jwig, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...


Keywords: Interactive Web services, XML, data-flow analysis

7 Towards efficient human machine speech communication: The speech graffiti project



Stefanie Tomko, Thomas K. Harris, Arthur Toth, James Sanders, Alexander Rudnický, Roni Rosenfeld
February 2005 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(721.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

This research investigates the design and performance of the Speech Graffiti interface for spoken interaction with simple machines. Speech Graffiti is a standardized interface designed to address issues inherent in the current state-of-the-art in spoken dialog systems such as high word-error rates and the difficulty of developing natural language systems. This article describes the general characteristics of Speech Graffiti, provides examples of its use, and describes other aspects of the system ...

Keywords: Human-computer interaction, speech recognition, spoken dialog systems

8 Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1**Publisher:** ACM Press

Full text available: pdf(987.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

9 Session 2: Minimal-impact audio-based personal archives

Daniel P.W. Ellis, Keansub Lee

October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences CARPE'04****Publisher:** ACM Press

Full text available: pdf(458.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Collecting and storing continuous personal archives has become cheap and easy, but we are still far from creating a useful, ubiquitous memory aid. We view the inconvenience to the user of being 'instrumented' as one of the key barriers to the broader development and adoption of these technologies. Audio-only recordings, however, can have minimal impact, requiring only that a device the size and weight of a cellphone be carried somewhere on the person. We have conducted some small-scale experiment ...

Keywords: archives, audio, clustering, diary, recording, segmentation, sound

10 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(300.97 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

11 XRel: a path-based approach to storage and retrieval of XML documents using relational databasesAugust 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1**Publisher:** ACM Press

Full text available: pdf(264.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

[terms](#), [review](#)

This article describes XRel, a novel approach for storage and retrieval of XML documents using relational databases. In this approach, an XML document is decomposed into nodes on the basis of its tree structure and stored in relational tables according to the node type, with path information from the root to each node. XRel enables us to store XML documents using a fixed relational schema without any information about DTDs and also to utilize indices such as the B+

Keywords: XML query, XPath, text markup, text tagging

12 [Papers: On the move: From desktop to phonetop: a UI for web interaction on very small devices](#)



Jonathan Trevor, David M. Hilbert, Bill N. Schilit, Tzu Khiau Koh

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**

Publisher: ACM Press

Full text available: [pdf\(1.34 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While it is generally accepted that new Internet terminals should leverage the installed base of Web content and services, the differences between desktop computers and very small devices makes this challenging. Indeed, the browser interaction model has evolved on desktop computers having a unique combination of user interface (large display, keyboard, pointing device), hardware, and networking capabilities. In contrast, Internet enabled cell phones, typically with 3-10 lines of text, sacrifice ...

Keywords: PDA, Web browsing, transcoding, transducing, web phone, wireless web

13 [Cross-modal interaction using XWeb](#)



Dan R. Olsen, Sean Jefferies, Travis Nielsen, William Moyes, Paul Fredrickson

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology UIST '00**

Publisher: ACM Press

Full text available: [pdf\(200.30 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cross-modal interaction, network interaction, screen layout, speech interfaces

14 [Web accessibility: Improving the accessibility of aurally rendered HTML tables](#)



Robert Filepp, James Challenger, Daniela Rosu

July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies Assets '02**

Publisher: ACM Press

Full text available: [pdf\(1.36 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current techniques employed to aurally render HTML tables often result in output that is very difficult for sight-impaired users to understand. This paper proposes TTPML, an XML-compliant markup language, which facilitates the generation of prose descriptions of tabular information. The markup language enables content creators to specify contextual reinforcement of, and linear navigation through, tabular information. The markup language may be applied to pre-existing Web content and is reusable ...

Keywords: Web accessibility, XML, aural interfaces, tables

15

[Multimodal architectures and frameworks: Architecture and implementation of](#)

multimodal plug and play

Christian Elting, Stefan Rapp, Gregor Möhler, Michael Strube

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces ICMI '03**

Publisher: ACM Press

Full text available: pdf(228.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the handling of multimodality in the Embassi system. Here, multimodality is treated in two modules. Firstly, a modality fusion component merges speech, video traced pointing gestures, and input from a graphical user interface. Secondly, a presentation planning component decides upon the modality to be used for the output, i.e., speech, an animated life-like character (ALC) and/or the graphical user interface, and ensures that the presentation is coherent and cohesive. We des ...

Keywords: dialog systems, multimodal, multimodal fission, multimodal fusion

16 Making computers disappear: appliance data services

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**

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Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

17 Putting FrameNet data into the ISO linguistic annotation framework

Srinivas Narayanan, Miriam R. L. Petruck, Collin F. Baker, Charles J. Fillmore

July 2003 **Proceedings of the ACL 2003 workshop on Linguistic annotation: getting the model right - Volume 19**

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Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes FrameNet (Lowe et al., 1997; Baker et al., 1998; Fillmore et al., 2002), an online lexical resource for English based on the principles of frame semantics (Fillmore, 1977a; Fillmore, 1982; Fillmore and Atkins, 1992), and considers the FrameNet database in reference to the proposed ISO model for linguistic annotation of language resources (ISO TC37 SC4) (ISO, 2002; Ide and Romary, 2001b). We provide a data category specification for frame semantics and FrameNet annotations in ...

18 Indexing and searching tera-scale Grid-Based Digital Libraries

Robert Sanderson, Ray R. Larson

May 2006 **Proceedings of the 1st international conference on Scalable information systems InfoScale '06**

Publisher: ACM Press

Full text available: pdf(138.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The University of California, Berkeley and the University of Liverpool in conjunction with the San Diego Supercomputer Center are developing a framework for Grid-Based Digital Library systems and Information Retrieval Services (Cheshire3) that operates in both single-processor and distributed computing environments. In this paper we discuss some results of testing Grid-based parallel approaches in indexing and retrieval for a variety of information resources, ranging from small test collections ...

19 [Making chalk and talk accessible](#)

S. Bennett, J. Hewitt, D. Kraithman, C. Britton

June 2002 **ACM SIGCAPH Computers and the Physically Handicapped , Proceedings of the 2003 conference on Universal usability CUU '03**, Issue 73-74**Publisher:** ACM PressFull text available:  pdf(252.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper investigates the development of an authoring package designed to mimic traditional "chalk and talk" delivery of content in education. It emphasizes the twin goals of making the output more accessible both for those with disabilities and for distance learners and also making the package usable by academic staff without requiring extensive training. It deals with issues arising from the capture of the material, the compromises and conflicts which are made in the satisfaction of accessib ...

Keywords: SMIL, XML, accessibility, authoring system, speech recognition**20** [Orthographic Errors in Web Pages: Toward Cleaner Web Corpora](#)

Christoph Ringlstetter, Klaus U. Schulz, Stoyan Mihov

September 2006 **Computational Linguistics**, Volume 32 Issue 3**Publisher:** MIT PressFull text available:  pdf(987.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Since the Web by far represents the largest public repository of natural language texts, recent experiments, methods, and tools in the area of corpus linguistics often use the Web as a corpus. For applications where high accuracy is crucial, the problem has to be faced that a non-negligible number of orthographic and grammatical errors occur in Web documents. In this article we investigate the distribution of orthographic errors of various types in Web pages. As a by-product, methods are develop ...

Results 1 - 20 of 200

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